



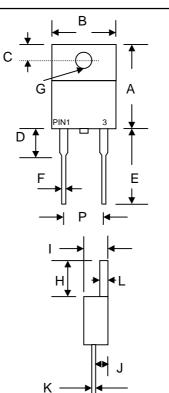
# 8.0A HIGH VOLTAGE SCHOTTKY BARRIER RECTIFIER

#### Features

- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

#### **Mechanical Data**

- Case: ITO-220A, Full Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 2.24 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



ITO-220A			
Dim	Min	Max	
Α	14.60	15.40	
В	9.70	10.30	
С	2.55	2.85	
D	3.56	4.16	
E	13.00	13.80	
F	0.30	0.90	
G	3.00 Ø	3.50 Ø	
Н	6.30	6.90	
I	4.20	4.80	
J	2.50	2.90	
К	0.36	0.80	
L	2.90	3.30	
Р	4.83	5.33	
All Dimensions in mm			



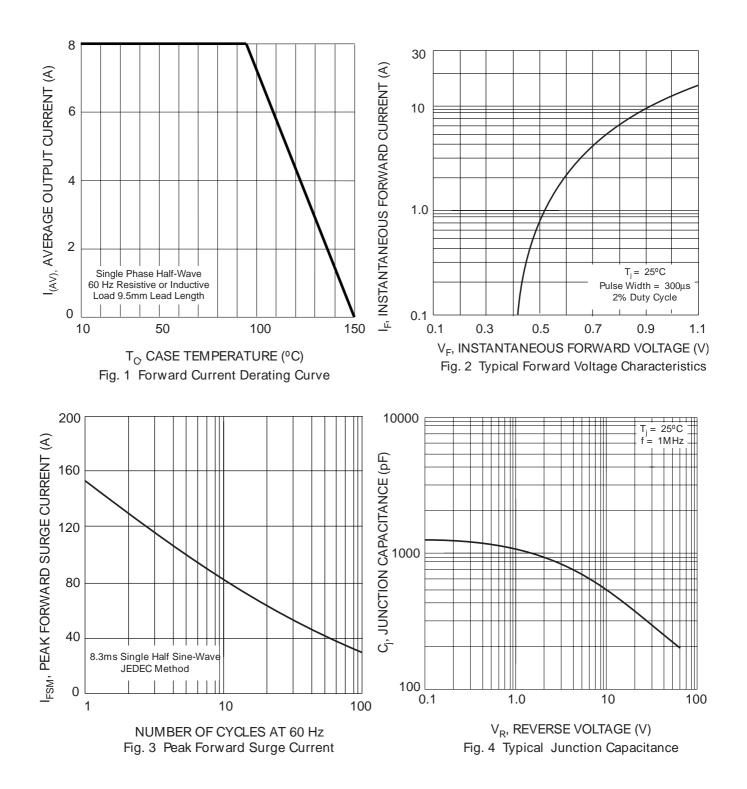
## Maximum Ratings and Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SB8150F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	V
RMS Reverse Voltage	Vr(rms)	105	V
Average Rectified Output Current $@T_c = 95^{\circ}C$	ю	8.0	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150	A
Forward Voltage @I <sub>F</sub> = 8.0A	Vfm	0.92	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	0.5 50	mA
Typical Junction Capacitance (Note 1)	Cj	700	pF
Typical Thermal Resistance (Note 2)	R	5.0	°C/W
Operating and Storage Temperature Range	Тј, Тѕтс	-65 to +150	°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case mounted on heatsink.



#### MARKING INFORMATION



WTE	= Manufacturer's Logo
SB8150F	= Device Number
Polarity	= As Marked on Body

### PACKAGING INFORMATION

#### BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
525 x 31 x 6	50	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19.0

Note: 1. Anti-static tube, water clear color.

#### RECOMMENDED SCREW MOUNTING ARRANGEMENT

The full molded plastic package affords a major reduction of hardware as compared to a standard TO-220 package. However, precautions should be made in mounting procedure. A conical washer should be used to apply proper force to the device. Screw should not be tightened with any type of air-forced torque or equipment that may cause crack on device package. A layer of thermal grease or thermal pad in the interface will be considerably helpful for heat dissipation.	6-32 HEX Head Screw Plain Washer Rectifier Heatsink Conical Washer 6-32 HEX Nut	
heat dissipation.		

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#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
SB8150F	ITO-220A	50 Units/Tube

1. Shipping quantity given is for minimum packing quantity only. For minimum

order quantity, please consult the Sales Department. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB8150F-LF. 2.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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